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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/023,117	12/17/2001	Bernardo De Oliveira Kastrup Pereira	NL 000721	2411
24738	7590	12/08/2005		
PHILIPS ELECTRONICS NORTH AMERICA CORPORATION INTELLECTUAL PROPERTY & STANDARDS 1109 MCKAY DRIVE, M/S-41SJ SAN JOSE, CA 95131			EXAMINER ELLIS, RICHARD L	
			ART UNIT	PAPER NUMBER
			2183	

DATE MAILED: 12/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/023,117

Applicant(s)

DE OLIVEIRA KASTRUP PEREIRA
ET AL.

Examiner

Richard Ellis

Art Unit

2183

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 November 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 January 2005 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

1. Claims 1-6 remain for examination.
2. The text of those sections of Title 35, US Code not included in this action can be found in a prior Office Action.
3. The drawings are objected to as failing to comply with 37 CFR § 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 16, 164b, 164c, 164d. Correction is required.
4. The drawings are objected to as failing to comply with 37 CFR § 1.84(p)(4) because reference characters "166" and "20" have both been used to designate the connection circuit. Correction is required.
5. Claims 1-6 are rejected under 35 USC § 103 as being unpatentable over Hauck et al., *The Chimaera Reconfigurable Functional Unit*, The 5th Annual IEEE Symposium on FPGAs for Custom Computing Machines, April 16-18, 1997, in view of DeHon, *Transit Note # 118 Notes on Coupling Processors with Reconfigurable Logic*.
Hauck et al. was cited as a prior art reference in paper number 8, mailed September 15, 2004.
6. The rejections are respectfully maintained and incorporated by reference as set forth in the last office action, paper number 20050524, mailed May, 27 2005.
Hauck et al. taught the claimed invention as detailed in the prior office action. Hauck et al. did not teach that for at least one configured function, the second programmable connection circuit reversed the relative order of outputs of different basic blocks, however, Hauck's circuitry provided the ability to perform such a reversal as all output blocks from all functional units are connected in common to all O1 ... O4 output multiplexers). DeHon taught utilizing reconfigurable logic for flexible input-output systems (pgs. 2-8) including using reconfigurable logic for reversal/rearrangement of data values (pg. 7, Byte swapping, Field extraction and insertion).
7. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have combined DeHon's system of reversal/rearrangement of data

values with Hauck's system because of DeHon's teaching that using reconfigurable logic for such functions provides performance, cost, and flexibility advantages (pg. 8, 'Advantage Summary" section).

8. Applicant's arguments with respect to claims 1-6 have been considered but are deemed to be moot in view of the new grounds of rejection.

9. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Richard Ellis whose telephone number is (571) 272-4165. The Examiner can normally be reached on Monday through Thursday from 7am to 5pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Eddie Chan, can be reached on (571) 272-4162. The fax phone number for the USPTO is: (703)872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2100.

A handwritten signature in black ink, appearing to read 'Richard Ellis', is positioned to the right of the typed name and date.

Richard Ellis
December 6, 2005